

Research Project #1

Reengineering DOT Data Programs

Reengineering DOT Data Programs

Objective

- Ensure decision makers have confidence in source and reliability of transportation safety data

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Phase I

- Conduct data quality assessments of transportation safety data systems

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Data Quality Assessment Template

- | | |
|--------------------------|----------------------|
| ● Background Information | ● Data Dissemination |
| ● Frames and Sampling | ● Sponsor Evaluation |
| ● Data Collection | ● Data Analysis |
| ● Data Preparation | ● Assessment |
| | ● Recommendations |

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Selected Data Systems

- UNISHIP
- Hazardous Materials Management Information System (HMIS)
- Airline Passenger Origin and Destination Survey
- National Transit Database System – Safety & Security module
- National Aviation Safety Data Analysis Center (NASDAC)) data system

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UNISHIP

- Primary purpose is to provide DOT administrations with information on past violation histories of hazardous materials offenders to be used when assessing civil penalties

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Hazardous Materials Management Information System (HMIS)

- Includes information on incidents involving unintentional release of a hazardous material during transit, loading/unloading, or temporary storage

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Airline Passenger Origin & Destination Survey

- Tracks how passengers use the commercial air traffic system
- Collects information on passenger origins, destinations, and routings.
- Conducted by BTS Office of Airline Information (OAI) since 1995

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National Transit Database System – Safety & Security Module

- Describes U.S. transit system with respect to investment, expenditures, operations, & performance
- Assessment pertains only to the Safety & Security Module

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National Aviation Safety Data Analysis Center (NASDAC)

- Centralized repository of 27 aviation databases
- Library of aviation safety studies and reference materials
- Data access, analysis and retrieval software
- On-site technical and analytical support personnel

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Conclusion

- BTS will continue to assess DOT databases that capture safety data in an effort to address the department's strategic goal of improving transportation safety.